

Atmosphere (air)



Lithosphere (land)

Hydrosphere (water)



Biodiversity, or the variety of living organisms in the biosphere, is vital for maintaining the health and functioning of ecosystems.

Loss of biodiversity can have significant ecological and economic impacts, such as reduced crop yields, increased susceptibility to disease, and loss of ecosystem services.



Water Cycle Regulation



Forests play a vital role in regulating water cycles. They influence rainfall patterns, water storage, and river flow, which is essential for agriculture, human consumption, and the overall health of ecosystems. By protecting forests, **REDD+** ensures that the hydrological cycles remain stable, benefiting both natural systems and human communities.

Preventing Soil Erosion



Forests help maintain soil integrity through their root systems, which prevent erosion. When forests are cleared, the soil can become unstable, leading to degradation, loss of soil fertility, and even desertification. **REDD+** promotes sustainable land use practices, such as agroforestry, which helps maintain soil health and prevent erosion.

Carbon Sequestration



Forests act as carbon sinks, absorbing carbon dioxide from the atmosphere. When forests are protected or restored under **REDD+**, they continue to capture and store carbon, helping mitigate climate change. This reduces the amount of carbon released into the atmosphere, which is critical for maintaining the Earth's temperature and mitigating the impacts of global warming.

Support for Indigenous Communities



Many indigenous and local communities rely on forests for their livelihoods, food, and shelter. REDD+ provides financial incentives for these communities to engage in sustainable forest management practices instead of clearing forests for agriculture or other purposes. This not only helps the biosphere but also ensures that these communities are empowered and incentivized to protect their environment.

Preventing Soil Erosion



Biodiversity Preservation



Carbon Sequestration



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Support for Indigenous Communities



Water Cycle Regulation

